

RF EXPOSURE REPORT

	OF
Applicant:	GOOGLE LLC 1600 Amphitheatre Parkway Mountain View, CA 94043
Product Name:	Wireless Streaming Device
Brand Name:	Google
Model No.:	G3AL9
Model Difference:	N/A
Report Number:	ER/2020/80017
FCC ID:	A4RG3AL9
FCC Rule Part	Part 2.1091
Issue Date:	Feb. 26, 2021

We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

The results of this report relate only to the sample identified in this report.

John Teh

Approved By:

Yeh John / Asst. Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History							
Report Number	Remark						
ER/2020/80017	80017 Rev.00 Original.		Feb. 26, 2021	Revised By: Tiffany Kao			

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) 1

1.1 General:

Product Name:	Wireless Streaming Device
Brand Name:	Google
Model No.:	G3AL9
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.65Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter

1.2 Antenna Information:

1.2.1 BT / WLAN 2.4GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	
PIFA	N/A	N/A	2.4GHz	2.4	

1.2.2 WLAN 5GHz

Antenna Type	Supplier	Antenna Part No.	Main / Operating Aux Frequency (MHz		Peak Antenna Gain (dBi)
			Main	5150~5250	5.9
PIFA	N1/A	N/A N/A		5250~5350	5.9
	N/A			5470~5725	6.5
				5725~5850	6.6

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2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)	
	Limits for Genera	al Population/Uncon	trolled Exposure		
0.3-1.34 614		1.63	*(100)	30	
1.34-30	1.34-30 824/f		*(180/f ²)	30	
30-300 27.5		0.073	0.2	30	
300-1500 /		/ f/1500		30	
1500-15000 /		/	1.0	30	

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance S=PG/4πR²

Where: S = Power density

P = Power input to antenna

- G = Power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = Distance to the center of radiation of the antenna

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Power Density Calculation (Worst Case) 2.2

FCC Standalone MPE

	Evaluation Frequency (MHz)	Distance		Antenna Gain (dBi)	Max. output Power EIRP (mW)	Power Density (PD) (mW/ cm ²)	Limit (mW/ cm²)	Page /	Power Density / Limit
BLE	2402.00	20	11.00	2.40	21.88	0.004	1.000	Pass	0.004
WLAN 2.4G	2437.00	20	19.50	2.40	154.88	0.031	1.000	Pass	0.031
WLAN 5G	5745.00	20	15.50	6.6	162.18	0.032	1.000	Pass	0.032

~ End of Report ~

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